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*Stated Meeting, March 20, 1903.*

President SMITH in the Chair.

A list of the donations to the Library was laid on the table and thanks were ordered for them from the Chair.

The decease was announced of Charles Godfrey Leland, at Florence, Italy, on March 20, 1903, aged 79 years.

Prof. Wilder D. Bancroft, of Cornell University, made some remarks on "The Electrolytic Dissociation Theory, with Application to Medicine and Biology."

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*General Meeting, April 2, 3 and 4, 1903.*

APRIL 2.—MORNING SESSION, 10 A.M.

President SMITH in the Chair.

The President made a brief Address of Welcome.

The following papers were read :

"The Structure of the Corn Grain and Its Relation to Popping," by Prof. Henry Kraemer, of Philadelphia.

"Beaver County (Pa.) Orchids," by Mr. Ira Franklin Mansfield, of Beaver, Pa.

"Development of the English Alphabet," by Prof. Francis A. March, of Easton, Pa.

"Archæology and Mineralogy," by Prof. Paul Haupt, of Baltimore.

"The Activity of Mont Pelée," by Prof. Angelo Heilprin, of Philadelphia.

"The Forward Movement in Plant-Breeding," by Prof. L. H. Bailey, of Ithaca, N. Y.

"Reaction as an Agent in Securing Navigable Depths in River and Harbor Improvements," by Prof. Lewis M. Haupt, of Philadelphia.

## AFTERNOON SESSION, 2 P.M.

Vice-President BARKER in the Chair.

The following papers were read :

"The Curtis Steam Turbine," by Mr. W. L. R. Emmet, of Schenectady, N. Y.

"The Principle of Least Work in Mechanics and Its Possible Use in Investigations Regarding the Ether of Space," by Prof. Mansfield Merriman, of Bethlehem, Pa.

"The Nernst Lamp," by Mr. Alexander Jay Wurts, of Pittsburg.

"The Problem of the Trusts," by Mr. C. Stuart Patterson, of Philadelphia.

"On the Dependence of what apparently takes place in Nature, upon what actually occurs in the Universe of Real Existences," by Prof. G. Johnstone Stoney, F.R.S., of London.

## EVENING SESSION, 8 P.M.

At the Hall of the Historical Society of Pennsylvania, S. W. Cor. of Locust and Thirteenth Streets.

President SMITH in the Chair.

The following papers were read :

"The President's Address—A Brief History of the Society," by Prof. Edgar F. Smith.

"The Carnegie Institution During the First Year of Its Development," by President Daniel C. Gilman, of Baltimore.

## APRIL 3.—MORNING SESSION, 10 A.M.

Vice-President LANGLEY in the Chair.

The following papers were read :

"The Double Star System  $\Sigma$  518," by Mr. Eric Doolittle, of Philadelphia. Introduced by Prof. M. B. Snyder.

"New Applications of Maclaurin's Series in the Solution of Equations and in the Expansion of Functions," by Prof. P. A. Lambert, of Bethlehem. Introduced by Prof. C. L. Doolittle.

"The Constant of Aberration," by Prof. Charles L. Doolittle, of Philadelphia.

"The Degree of Accuracy of the Newtonian Law of Gravitation," by Prof. Ernest W. Brown, F.R.S., of Haverford, Pa.

"The Mechanical Construction and Use of Logarithms," by Mr. Charles E. Brooks, of Baltimore. Introduced by Prof. George F. Barker.

"The Theory of Assemblages and the Integration of Discontinuous Functions," by Prof. I. J. Schwatt, of Philadelphia. Introduced by Prof. C. L. Doolittle.

"The Franklin Papers in the Library of the American Philosophical Society," by Mr. J. G. Rosengarten, of Philadelphia.

#### EXECUTIVE SESSION, 12.15 P.M.

President SMITH in the Chair.

Dr. Hays, by unanimous consent, offered the following preamble and resolution, which were unanimously adopted:

"Inasmuch as the two hundredth anniversary of the birth of Benjamin Franklin occurs in January, 1906, it is proper that the American Philosophical Society, which owes its existence to his initiative and to which he gave many long years of faithful service, should take steps to commemorate the occasion in a manner befitting his eminent services to this Society, to science and to the nation. Therefore be it

*Resolved*, That the President is authorized and directed to appoint a Committee of such number as he shall deem proper to prepare a plan for the appropriate celebration of the bi-centennial of the birth of Franklin, and to report the same to this Society."

The President thereupon appointed the following members to constitute the Committee:

Hon. George F. Edmunds, *Chairman*.  
Prof. Alexander Agassiz, Boston.  
Prest. James B. Angell, Ann Arbor.  
Prof. George F. Barker, Philadelphia.  
Prof. A. Graham Bell, Washington.  
Mr. Andrew Carnegie, New York.  
Prof. C. F. Chandler, New York.  
Hon. Grover Cleveland, Princeton.  
Prest. Charles W. Eliot, Cambridge.  
Prest. Daniel C. Gilman, Baltimore.  
Prest. Arthur T. Hadley, New Haven.  
Provost C. C. Harrison, Philadelphia.  
Hon. John Hay, Washington.  
Dr. I. Minis Hays, Philadelphia.  
Prof. Samuel P. Langley, Washington.  
Capt. Alfred T. Mahan, U.S.N.  
Dr. S. Weir Mitchell, Philadelphia.  
Prof. Simon Newcomb, Washington.  
Governor S. W. Pennypacker, Harrisburg.  
Prof. E. C. Pickering, Cambridge.  
Prof. Michael I. Pupin, New York.  
Prest. Ira Remsen, Baltimore.  
Prof. John Trowbridge, Cambridge.  
Dr. Charles D. Walcott, Washington.  
Hon. Andrew D. White, Ithaca.  
Prest. Woodrow Wilson, Princeton.

The pending nominations for membership were read and spoken to. The Society then proceeded to ballot for members.

The tellers subsequently reported the election of the following named candidates as members:

*Residents of the United States—*

Edward E. Barnard, Sc.D., Williams Bay, Wis.  
Carl Barus, Ph.D., Providence, R. I.  
Franz Boas, Ph.D., New York.

William W. Campbell, Sc.D., Mt. Hamilton, Cal.

Eric Doolittle, Philadelphia.

Basil Lanneau Gildersleeve, LL.D., Baltimore.

Francis Barton Gummere, Ph.D., Haverford, Pa.

Arnold Hague, Washington, D. C.

George William Hill, LL.D., Nyack, N. Y.

William Henry Howell, Ph.D., Baltimore.

Edward W. Morley, Ph.D., Cleveland.

Harmon N. Morse, Ph.D., Baltimore.

Edward Rhoads, Haverford, Pa.

Alfred Stengel, M.D., Philadelphia.

William Trelease, Sc.D., St. Louis.

*Foreign residents—*

Anton Dohrn, Naples.

Edwin Ray Lankester, LL.D., F.R.S., London.

Sir Henry E. Roscoe, F.R.S., D.C.L., London.

Joseph John Thomson, D.Sc., F.R.S., Cambridge, Eng.

Hugo de Vries, Amsterdam.

AFTERNOON SESSION, 2 P.M.

Vice-President SCOTT in the Chair.

The following papers were read :

"Further Notes on the Santa Cruz Edentates," by Prof. William B. Scott, of Princeton.

"Some Magnetic Properties of Nickel," by Mr. Joseph Wharton, of Philadelphia.

"A New Fresh-Water Molluscan Faunule from the Cretaceous of Montana," by Mr. T. W. Stanton, of Washington. Introduced by Prof. W. B. Scott.

"The Earliest Differentiation of the Egg," by Prof. Edwin G. Conklin, of Philadelphia.

"The Evolution and Distribution of the Proboscidea," by Prof. Henry F. Osborn, of New York.

"An Attempt to Correlate the Marine with the Non-marine

Jurassic and Cretaceous Formations of the Middle West," by Prof. John B. Hatcher, of Pittsburg.

"Hints on the Classification of the Arthropoda, the Group a Polyphyletic One," by Prof. Alpheus S. Packard, of Providence.

"Anatomy of the Flosculariidaë," by Prof. Thomas H. Montgomery, Jr., of Philadelphia.

"A Résumé of the Composition of Petroleum from Different Fields," by Prof. Charles F. Mabery, of Cleveland.

#### APRIL 4.—MORNING SESSION, 10 A.M.

President SMITH in the Chair.

The following papers were read :

"The Most Insidious Source of Error in Quantitative Chemical Research," by Prof. Theodore W. Richards, of Cambridge, Mass.

"A Further Classification of Economies," by Prof. Lindley Miller Keasbey, of Bryn Mawr, Pa.

"Some Features of the Supernatural as Represented in Elizabethan and Jacobean Plays," by Prof. Felix E. Schelling, of Philadelphia.

"The Hamites and Semites in the Tenth Chapter of Genesis," by Prof. Morris Jastrow, Jr., of Philadelphia.

"The Warfare Against Tuberculosis," by Dr. Mazýck P. Ravenel, of Philadelphia.

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### ON A NEW GENUS OF HYDROID JELLY-FISHES.

BY WILLIAM KEITH BROOKS.

(Plate I.)

(Read April 4, 1902.)

#### GENUS DICHOTOMIA.

*Diagnosis of the Genus.*—Hydroid jelly-fishes with four radial canals which divide dichotomously two, three, four, or more times,